Purchasing Receipts

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200 Fax 613 632-5246

	Te	Į.	Į.	[,1	L	T.C	Į,i	Т
Supplier Name	\$91.19 McMaster- Carr Supply Co,	\$40.18 McMaster- Carr Supply Co,	\$18.84 McMaster- Carr Supply Co,	\$7.00 McMaster- Carr Supply Co,	\$30.82 McMaster- Carr Supply Co,	\$436.97 McMaster- Carr Supply Co,	\$34.65 McMaster- Carr Supply Co,	
Total	\$91.19	\$40.18	\$18.84	\$7.00	\$30.82	\$436.97	\$34.65	\$659.65
oast Due								Г
Aging F Days	0	0	0	0	0	0	0	
Receive Price/Unit Aging Past Date	\$ 1.82 / ft	\$ 0.80 / ft	12/3/2018 \$ 0.63 / Ea	\$ 0.14 / Ea	\$ 5.14 / ft	12/3/2018 \$ 145.66 / ft	\$ 2.31 / Ea	
	Inactive 12/3/2018 \$ 1.82 / ft	12/3/2018	12/3/2018	12/3/2018	12/3/2018 \$ 5.14 / ft	12/3/2018	12/3/2018 \$ 2.31 / Ea	
Status	Inactive	Stock	Stock	Stock	Stock	Stock	Stock	
Container No	S134204	S134207	S134208	S134209	S134211	S134212	S134210	
Received Accounting Container Quantity Job No No								
Received Quantity	50	50	30	50	9	ю	15.	204
Due Date	50 12/4/2018							
Order	50		30	50	9	8	15	204
Equipment ID								Total:
Project								
For Part No								
Description Part Project Equipment Order	Velcro Hook & Loop Color: Black	Heat Shrink Tubing Color Black receive pcs	SS Helical Insert #5-40 x 1/4"" Lg.	SS Socket Head Cap Screw #5-40 x 1/2"" Lg.	Tool Steel Round Bar 0.625 dia.	AISI 01 TOOL STEEL BAR 0.500"" High X 12.000"" Wide	Bolt 5*1/2	
Purchased Item	9273K42	7856K75	91732A704	92185A136	MT-01- R0.625	MT-01-B- AISI 01 TOO 0.500X12.000 STEEL BAR 0.500"" High 12.000"" Wid	8NR-74	
Terms	1 2% 10 Net 30							
Rel	-	2	е	4	10			
Line Item No			M	N	S	9	7	
PO No Supplier Item No	MCM001- VU							
PO No	P0041892 MCM001-							

Plex 12/3/2018 4:04 PM Dart.Belanger.Natasha



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041892

Tel (613) 632-5200

Supplier:

MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500

Fax: 330 995 9600

PO No:

PO041892

PO Date:

11/29/18

Due Date:

12/4/18

Purchase Order Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground

Pymt Terms:

2% 10 Net 30

Freight Terms: **Special Comments:**

					lte	ms						
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (USD)	Extended Price
	187201	9273K42	50 ft	Velcro Hook & Loop Color: Black	Allegan		12/4/18 DEC 0 (50 ft	D ft	50 ft	\$1.8238/ft	\$91.19
ine Item Note	as per d	lwg D4730 REV	/. B	THE RESERVE OF THE PARTY OF THE			d are over	, ,		for the second second second second		A T. T. C. S. A. MINNEY CO. OR.
(2)	of the lates of the same and the lates of th	7856K75	color black 25 ft	Heat Shrink Tubing Color Black receive pcs	-		12/4/18	50 ft	0 ft	50 ft	\$0.8036/ft	\$40.18
(3)		91732A704	10/pk	SS Helical Insert #5-40 x 1/4" Lg	Firmed		12/4/18 2018	30 Ea	0 Ea	30 Ea	\$0.628/Ea	\$18.84
4	The second state of the se	92185A136	50/pk	SS Socket Head Cap Screw #5- 40 x 1/2" Lg.	Firmed	0 3 50.	12/4/18	50 Ea	0 Ea	50 Ea	\$0.14/Ea	\$7.00
(25)		MT-O1- R0.625	8893K9 6 FT	Tool Steel Round Bar 0.625 dia.	Firmed	+ × 1	12/4/18 DEC 0 3	2018 ^{6 ft}	8 0 ft	6 ft	\$5.1366666/ft	\$30.82
6		MT-O1-B- 0.500X12,000	9516K527 3 FT	AISI 01 TOOL STEEL BAR 0.500" High X 12.000" Wide	Firmed 3	***************************************	12/4/18 EC 0 3	3 ft 2018	9 o ft	3 ft	\$145.65666/ft	\$436.97
7		8NR-74	91257A755 1/pk	Bolt 5*1/2	Firmed	-2018 ³ LU	12/4/18	15 Ea	0 Ea	15 Ea	\$2.31/Ea	\$34.65
) X	U J	2010	LX	-			Grand Total:	\$659.65



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041892

Tel (613) 632-5200

Order Notes

Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 DOCUMENT SPECIAL REQUIREMENTS A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/29/18 2:51 PM dart.lavoie.chantal



200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

Purchase Order PO041892 ~

Page 1 of 1

Packing List

11/29/2018

Order Placed By Chantal Lavoie

McMaster-Carr Number 4679988-02

Prøduct Line

Ordered Shipped

Each

8893K9

Tight-Tolerance Multipurpose O1 Tool Steel Rod, 0.6250" Diameter, 6 Feet Long



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO041892

Page 1 of 1 11/29/2018

Order Placed By Chantal Lavoie

McMaster-Carr Number 4679988-01

Line

9516K527

Product

Tight-Tolerance Multipurpose O1 Tool Steel Bar, 1/2" Thick, 12" Wide, 3 Feet Long

Ordered Shipped

Each

237



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO041892

Order Placed By Chantal Lavoie

McMaster-Carr Number 4679988-03

Page 1 of 1

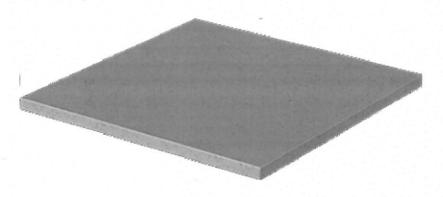
11/29/2018

Line	Prøduct	Ordered	Shipped
1	9273K42 Hook and Loop with Adhesive Backing, 1-1/2" Wide x 50 Feet Long, Black	1 Each	10
2	7856K75 Heat-Shrink Tubing, 25 Feet Long, 0.25" ID Before Shrinking, Black	2 Each	2
3	91732A704 18-8 Stainless Steel Helical Insert, 5-40 Right-Hand Thread, 0.250" Long, Packs of 10	3 Packs	3
4	92185A136 Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, 5-40 Thread Size, 1/2" Long, Packs of 50	1 Pack	1
7	91257A755 Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 5" Long, Partially Threaded, Packs of 1	15 Packs	15

McMASTER-CARR®

Tight-Tolerance Multipurpose O1 Tool Steel Bar 1/2" Thick, 12" Wide

\$436.97 Each 9516K527



Material	O1 Tool Steel
Cross Section	Dootonala
Shape	Rectangle
Construction	Solid
Appearance	Plain
Thickness	1/2"
Thickness	0.001" +0.0.001"
Tolerance	-0.001" to 0.001"
Tolerance Rating	Tight
Width	12"
Width Tolerance	0" to 0.015"
Yield Strength	50,000 psi
Temper Rating	Not Rated
Hardness	Rockwell B85
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature	Not Date d
Range	Not Rated
Specifications Met	ASTM A681
Flatness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1×10^{-6}
Elongation	25%
Material Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%
Manganese	1.00-1.40%
Nitrogen	0.40-0.60%
Phosphorus	0-0.030%
Silicon	0-0.50%
Sulfur	0 0 00001
	0-0.030%
Tungsten	0.40-0.60%
Vanadium	0.40-0.60% 0-0.30%
	0.40-0.60%

Additional Guidelines for Heat
Specifications Treating Tool Steel
RoHS Not Compliant

4

These precision-ground sheets and bars have a tight thickness tolerance of ± 0.001 " (± 0.05 mm). Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion. Sheets and bars are also known as flat stock.

BY APPROVED

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI O1 TOOL STEEL BAR

SPECIFICATION:

D

DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681

PART NUMBER:

MT-O1-B-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES

EG. 4"x6" BAR = MT-O1-B-4.000x6.000

TOLERANCES PER MANUFACTURER SPECIFICATIONS

AISI O1 TOOL STEEL BAR

ELN 17-649

McMASTER-CARR.

Tight-Tolerance Multipurpose O1 Tool Steel Rods



· Yield Strength: 50,000 psi

· Hardness: Rockwell B90 (Medium)

· Heat Treatable: Yes

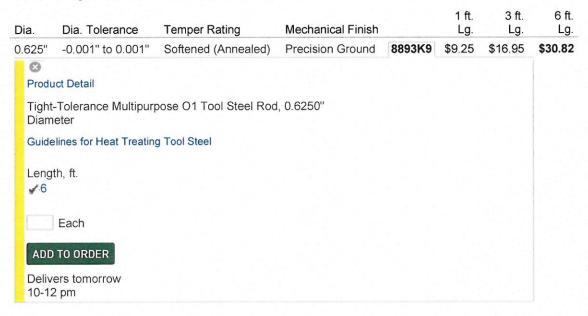
· Max. Hardness after Heat

Treatment:

Inch sizes: Rockwell C65 Metric sizes: Rockwell C62

· Specifications Met: ASTM A681

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion.



BY APPROVED AISI O1 TOOL STEEL ROUND BAR COPYRIGHT © 2017 BY DART AEROSPACE LTD
THE DOCUMENT BETWAIT WO DOFFENING HOT BE BETWEED ON THE EINSTEAD CONTINUE HOT BE NOT TO BE UNITED TO THE EINSTEAD HOT BE NOT TO BE UNITED TO THE TOWN WITHOUT HEINTH PROBLEMENT DATE DESCRIPTION NEW ISSUE ECN 17-1,49 REV. MT-01-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES SPECIFICATION CONTROL DRAWING EG. 5/8" ROUND BAR = MT-01-R0.625 AISI O1 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER:

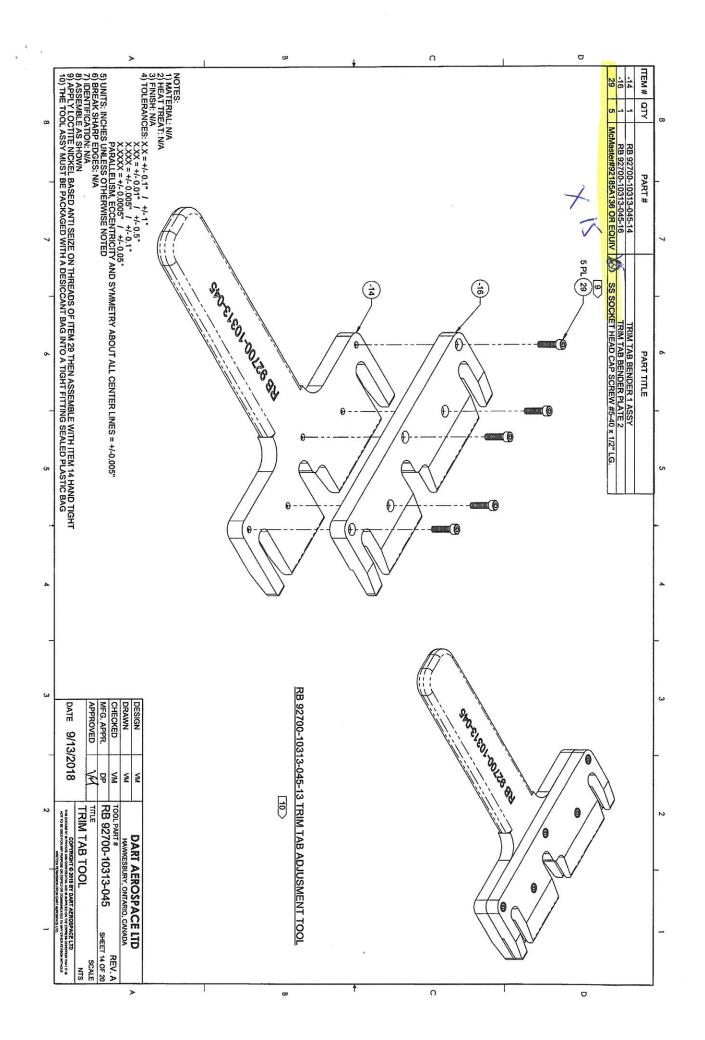
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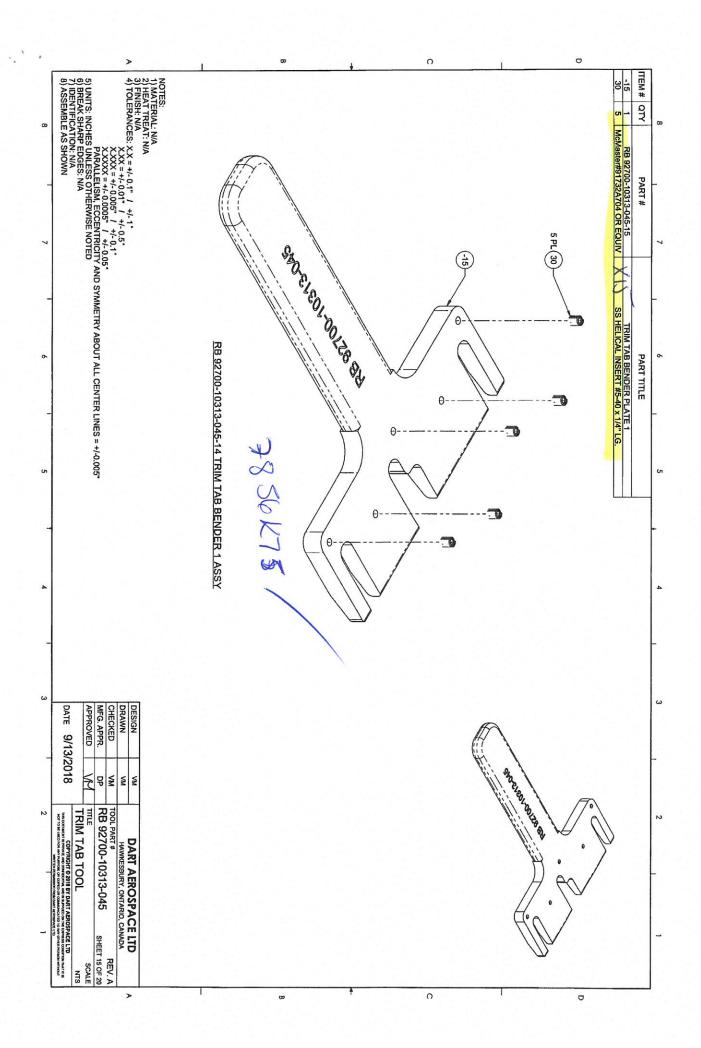
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McMASTER-CARR.

Tight-Tolerance Multipurpose O1 Tool Steel Rod 0.6250" Diameter

8893K9



Material	O1 Tool Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	0.625"
Diameter Tolerance	-0.001" to 0.001"
Tolerance Rating	Tight
Yield Strength	50,000 psi
Temper Rating	Softened (Annealed)
Hardness	Rockwell B90
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature Range	Not Rated
Specifications Met	ASTM A681
Straightness	Not Dated
Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1 × 10 ⁻⁶
Elongation	25%
Material Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%

Manganese	1.00-1.40%
Nitrogen	0.40-0.60%
Phosphorus	0-0.030%
Silicon	0-0.50%
Sulfur	0-0.030%
Tungsten	0.40-0.60%
Vanadium	0-0.30%
Length	1 ft., 3 ft., 6 ft.
Additional	Guidelines for Heal
Specifications	Treating Tool Steel
RoHS	Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges. O1 tool steel is an oil-hardening material that resists wear and abrasion.

0 APPROVED ARRIVAGE CONTROLLAGE ARRIVAGE WW BY MT-01-R 17,08.09 DATE DESCRIPTION EN 17-1,49 REV. MT-01-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = MT-01-R0.625 SPECIFICATION CONTROL DRAWING PURCHASE MATERIAL: AISTO1 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 SPECIFICATION: PART NUMBER: ω

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-6 DATE: 18(1)	RD-	625		PO / BATCH	no.: <u>Рооч</u>	1972/5/34211	
MATERIAL CERT REC'D: Log QUANTITY RECEIVED: Log QUANTITY INSPECTED: Log QUANTITY REJECTED: Log		. THIC SHE	CKNESS ORDER CKNESS RECEIN ET SIZE ORDER ET SIZE RECEIN	VED: 0.61	5"		
DESCRIPTION	(Ch	CR eck (N)			COMMENT	TS .	
SURFACE DAMAGE	Υ	N		· · · · · · · · · · · · · · · · · · ·			
CORRECT FINISH	(Y)	Ν					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(Y)	N					
CORRECT MATERIAL PER M-DRAWING	CD	Ν	01 -	TOOL STE	EL ASTM	A681	
CORRECT THICKNESS	(Y)	N			7,77		
PHOTO REQUIRED	Y	(1)	1	,			
CORRECT REF # TO LINK CERT	(1)	N	POOY	1892			
CORRECT MATERIAL IDENTFICATION	N	N					
CORRECT M# ON THE MATERIAL	B	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(3)					
CUT SAMPLE PIECE	OF	MA	TERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
	F	REC	ORD RES	SULTS BELO	V		
			HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL			1071303 E.F				
SIZE OF TEST SAMPLE		(resider (diffusion)	2011 35			ates all establishments	
HARDNESS / DUROMETER READI	٧G						
	te	sters	located in	the Quality Off	<u>ice</u>		

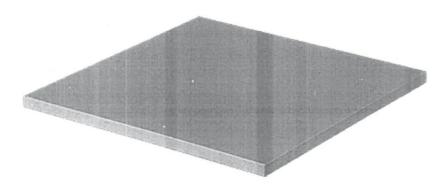
QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	(8/2-89/03	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

McMASTER-CARR.

Tight-Tolerance Multipurpose O1 Tool Steel Bar 1/2" Thick, 12" Wide

9516K527



Material	O1 Tool Steel
Cross Section	Rectangle
Shape	nectarigle
Construction	Solid
Appearance	Plain
Thickness	1/2"
Thickness	-0.001" to 0.001"
Tolerance	-0.001 10 0.001
Tolerance	Tight
Rating	Tight
Width	12"
Width	0" to 0.015"
Tolerance	0 10 0.015
Yield Strength	50,000 psi
Temper Rating	Not Rated
Hardness	Rockwell B85
Hardness	Medium
Rating	Wediam
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature Range	Not Rated
Specifications Met	ASTM A681
Flatness	Not Rated
Tolerance	Not hated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1 × 10 ⁻⁶
Elongation	25%
Material Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%

0.40-0.70% Chromium Manganese 1.00-1.40% Nitrogen 0.40-0.60% Phosphorus 0-0.030% 0-0.50% Silicon Sulfur 0-0.030% Tungsten 0.40-0.60% Vanadium 0-0.30% Length 1 1/2 ft., 3 ft., 6 ft. Guidelines for Heat Additional

Specifications

Treating Tool Steel

These precision-ground sheets and bars have a tight thickness tolerance of ±0.001" (±0.05 mm). Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion. Sheets and bars are also known as flat stock.

APPROVED DART MAN BOY COURT. COURT. COURT. WW AISI O1 TOOL STEEL BAR VM ВУ MT-01-B DATE 17.08.09 のことにいい DESCRIPTION NEW ISSUE TOLERANCES PER MANUFACTURER SPECIFICATIONS REV. MT-O1-8-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES EG. 4"x6" BAR = MT-01-8-4.000x6.000 SPECIFICATION CONTROL DRAWING DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 AISIO1 TOOL STEED BAR PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: 8

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-8 DATE: 18/12/	B-L	0.500	<u>x1</u> 2.00	•	PO / BATO	CH NO	D.: <u>[004]</u>	892/513421.	
MATERIAL CERT REC'D: 💃					THIC	KNESS ORI	DEREI	D: 0.500	, (
QUANTITY RECEIVED: 34+		190				KNESS REC			
QUANTITY INSPECTED: 354		-							
						ET SIZE ORI			
QUANTITY REJECTED:					SHE	ET SIZE REC	EIVE	D:	
			I					2.573.24.24.04	
DESCRIPTION		eck N)				COMME	NTS		
SURFACE DAMAGE	Y	W							
CORRECT FINISH	8	Ν							
CORROSION	Y	D							
CORRECT GRAIN DIRECTION	8	N							
CORRECT MATERIAL PER M-DRAWING	D	N	01	Tool	(1)	EL A	TM	A681	
CORRECT THICKNESS	8	Ν		100		/			
PHOTO REQUIRED	Υ	N							
CORRECT REF # TO LINK CERT	W	N	PDO	41892					
CORRECT MATERIAL IDENTFICATION	(V)	N	, –						
CORRECT M# ON THE MATERIAL	(1)	N							
DOES THIS MATERIAL REQUIRE		_							
ENGINEERING SIGN OFF	Υ	(N)						1	
DOES THIS REQUIRE AN	.,	0							
EXTRUSION REPORT	Υ	(N)							
						100			
CUT SAMPLE PIECE							NESS	CHECK.	
	F			ESULTS					
TVDE OF MATERIAL			HRC	-	IRB	DUR A		DUR D	WEBSTER
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE							-		
HARDNESS / DUROMETER READIN						L			
	<u>te</u>	sters	located	in the Qu	ality Offic	<u>ce</u>			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: 18/14/03	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in